

S 451

.M6 R4





S
451
M6R4



*A
Story of the
Happy Farmer
Clan*

*Red Lake County
Minnesota*

The



Always greets you with a smile. He is one of the
307 Farm Bureau Boosters who helped
to make possible

The Second Annual
Report of the County Agent
Red Lake County

December 1st, 1918 to
November 30th, 1919



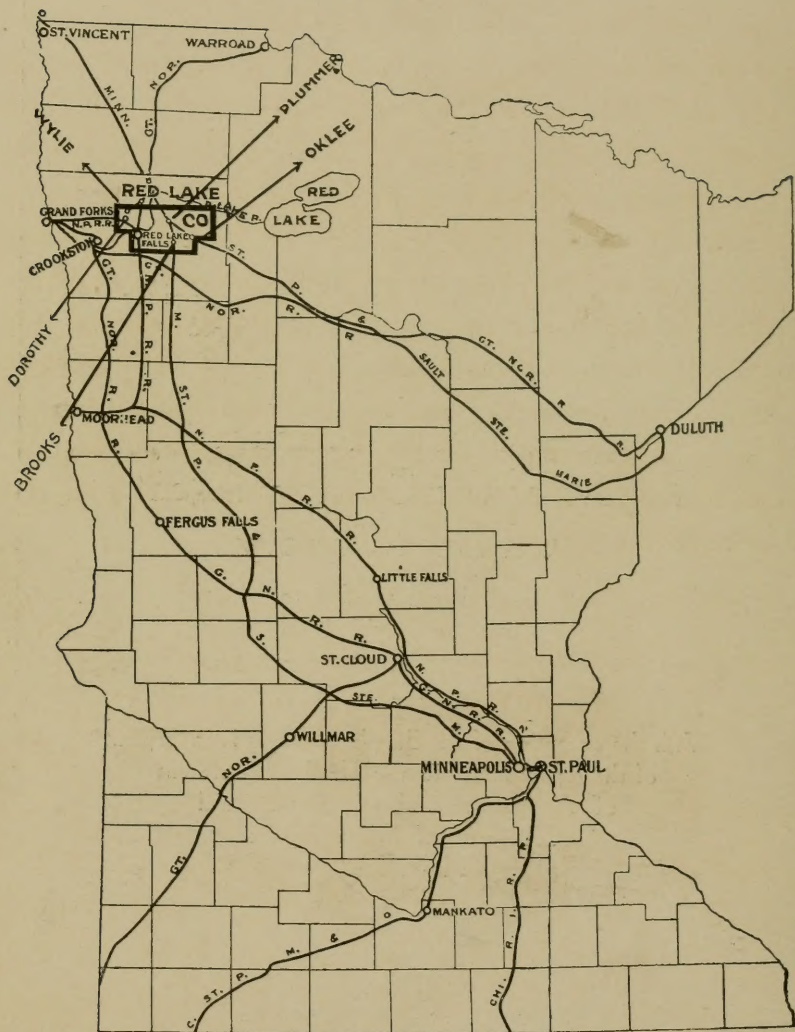
With the exception of the Supplement this is a reprint
of the report made to the U. S. Department
of Agriculture and the Agricultural
College of the University of
Minnesota.



Prepared By
CHARLES C. LAKE, County Agent
Red Lake Falls, Minnesota
1919

Copyrighted 1920
CHARLES C. LAKE
Red Lake Falls, Minn.

Minnesota



All Roads Lead to Red Lake County

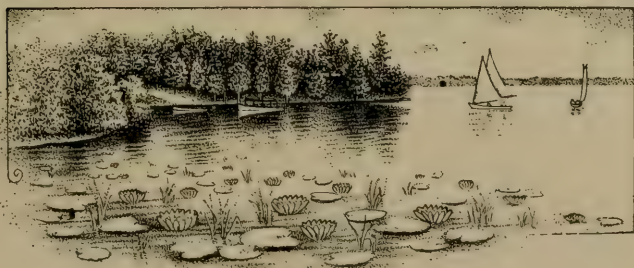
© Cl. A 566675

APR 26 1920

S 451
. M 6 T 4

Red Lake County

Red Lake County is located in the east central part of the Red River Valley, 275 miles northwest of St. Paul and Minneapolis and 225 miles west of Duluth. The area of Red Lake County is 432 square miles. The Red Lake and Clearwater rivers with their tributaries furnish an excellent drainage system. These rivers furnish power for the county's mills, electric light and power for the county and adjoining counties. Portions of the county are lightly wooded with hard and soft wood. The land is gently rolling, and the soil for the most part is a rich, productive sand loam with clay subsoil formed by lake and wash deposits. The county is especially adapted to diversified farming, the type of farming that will bring the Red River Valley to its own.





Clearwater River near Red Lake Falls, Minn.

The Clearwater and Red Lake Rivers furnish power for the mills and electric power companies of the county. The power companies furnish power and light to people of the county and adjoining counties.



Power Dam, Red Lake River, Red Lake Falls, Minn.

There are many undeveloped power sites on the rivers of Red Lake County.

Introduction and Summary

In making our second annual report of County Agricultural and Farm Bureau work in Red Lake County, we have used a great many pictures. The most of them have direct bearing upon the work done the past year by the Farm Bureau. Practically all of the livestock pictures are of animals which have been brought into the county during the year.

The pictures in the crop section are of two classes, some of them pertain to seed plots, which were being carried on in conjunction with the Farm Bureau. However, owing to the heavy rain during July these plots were so badly damaged that we have no data from them as to yield or quality of grain. The other pictures pertain to crops raised by farmers in various parts of the county which should be used in general by all farmers in the county.

During the past year the Red Lake County Farm Bureau Association has carried on or assisted in the following:

CROP WORK:

Seed For Spring Planting—384 farmers were aided in buying and selling 18,177 bushels of seed grain and 11,480 pounds of other seed.

Labor—48 men were placed upon 24 farms during the year.

Disease Control—The use of formaldehyde increased in the county 207%, corrosive sublimate 500%.

Pure Seed Work—15 pure seed plots in potatoes, 15 pure seed plots of wheat, on account of damage by rain no results are given. Sixteen pure seed plots of Rosen rye were planted this fall.

LIVE STOCK:

Tuberculin Testing—464 cattle were tested before December, however, the week following the total was brought to 623. No reactors were found among cattle which had been in the county over 60 days; 26 registered sires were brought into the county, 34 registered females were added to herds of the county, 193 people were assisted in buying and selling 1,197 head of livestock. The Livestock Sale at Plummer, 275 head of livestock were sold for \$15,000. Twenty-seven silos were erected in the county this year.

Office Work—The Farm Bureau received the following: Office calls, 1,631 telephone calls, 735; letters written, 2,785; letters received, 2,139; form letters written, 46,612.

Project Work—325 farm visits were made, 15 institutes were held with an attendance of 1,257; total meetings held, 59; total attendance, 8,096; 3,898 miles were traveled by rail, 7,315 miles were traveled by auto, 116 miles were traveled by team; total miles traveled, 11,329; 48 specialists from the College Station and Department of Agriculture spent 90 days in the county, 5 specialists from other educational agencies spent 10 days in the county. Total number of specialists visiting county, 52; total days spent in the county, 100.

Boys and Girls' Club Work—Twenty-five boys and girls were enrolled in potato work.

Farm Bureau

The Red Lake County Farm Bureau Association is an incorporated body, which is governed by a board of directors who assist in planning and in outlining the work the county agent is to do.

The Farm Bureau work is to assist in developing better agricultural methods, and to help in bringing the business and farming interests closer together. For in all agricultural com-



Red Lake County Court House.

The home of the Red Lake County Farm Bureau Association, Red Lake Falls, Minn.

munities, agricultural development is the one important problem of both the town and country.

During the past year the Farm Bureau membership has increased from 179 to 307, or 58%.



**Office of Red Lake County Farm Bureau Association,
Red Lake Falls, Minn.**

The Farm Bureau can assist you in getting good seed grain.

The Farm Bureau can assist you in selling your seed grain.

The Farm Bureau can assist you in securing good pure bred livestock.

The Farm Bureau can assist you in selling your pure bred livestock.

The Farm Bureau is the Farmers' Clearing House. It can help you—USE IT.

Officers and Directors of Red Lake County Farm Bureau

Ovilla Robillard, President.....Red Lake Falls, Minn.

Edmund J. Porter, Sec. and Treas.....Red Lake Falls, Minn.

Olaf Tande, First Vice President.....Plummer, Minn.

W. A. Schroeder, Second Vice President.....Brooks, Minn.

Clyde Childs Brooks, Minn.

E. M. Smith Erskine, Minn.

Carl Rindahl Oklee, Minn.

C. G. Sall Plummer, Minn.

W. R. Holcomb..... Plummer, Minn.

H. J. Enderle Plummer, Minn.

F. P. Grenier.....Red Lake Falls, Minn.

Fremont Derosier	Red Lake Falls, Minn.
H. Zwingelberg	Red Lake Falls, Minn.
E. G. Buse.....	Red Lake Falls, Minn.
A. P. Toupin.....	Oklee, Minn.

Program of Work for 1919

1. The Development of the Farm Bureau Association:

- (1) By extension of membership to all sections of the county.
- (2) By selecting persons and committees to direct lines of work in community.

2. Crop Improvement and Introduction:

- (1) To develop facilities to insure an ample supply of good farm seed for all farmers in the county.
- (2) Keep food crops up to normal acreage.
- (3) Introduction of clover and alfalfa.
- (4) Standardization of crops.
- (5) Control of grain smuts.
- (6) Conducting of potato demonstrations on seed selection, disease control, standardization and marketing.
- (7) Conducting of pure grain plots.

3. Livestock Improvement and Introduction:

- (1) Greater use of pure bred sires.
- (2) Increase of livestock raising.
- (3) Employment of economical feeding rations and the use of balanced rations.
- (4) Control of animal disease.
- (5) Assistance in buying, selling and exchanging of breeding stock within the county.
- (6) Assistance in testing of cows for milk and butterfat production and the keeping of milk records.
- (7) Encouraging the building of more silos.
- (8) Conducting pasture feeding demonstrations.

4. Farm Management:

- (1) Crop rotation.
- (2) Weed control.
- (3) Farm accounting as an aid to income tax report.
- (4) The study of the cost of tractor operation.
- (5) The conservation of manures.
- (6) Labor exchange.

5. Organizations:

Of assistance in the organizing and development of:

- (1) Farmers' clubs.
- (2) Co-operative creameries.
- (3) Co-operative elevators.
- (4) Livestock shipping associations.
- (5) Livestock breeders' associations.
- (6) Poultry growers' association.
- (7) Grain breeders' association.
- (8) Potato growers' association.
- (9) Cheese factories.

6. Boys' and Girls' Club Work:

- (1) Potato raising.
- (2) Calf raising.
- (3) Sheep raising.

Farm Bureau Picnic

The Red Lake County Farm Bureau Association held its second annual picnic on the Clearwater river at Terrebonne, Minn.

The grounds are located on an island belonging to the Terrebonne Milling Co. Among the shade trees is a natural amphitheater capable of seating several thousand people. Across the bridge from the island is parking space for two thousand cars, and on a nearby hill is a baseball ground. Terrebonne is located about two miles south and west of the center of the county, all of these advantages make it an ideal location for gatherings of any size.

The picnic was attended by 3,500 to 4,000 people, who enjoyed the program which consisted of speaking and sports. Rev. Bouchard of Terrebonne, gave the opening address, which was responded to by Frank Jeffers of Red Lake Falls, then followed addresses by Prof. C. E. Brown of the Northwest School at Crookston; Charles Forbes of the State Highway Department, St. Paul; S. P. Weimer, President of the Stearns County Farm Bureau Association, and A. D. Wilson, Director of the Agricultural Extension Division of the University of Minnesota, University Farm, St. Paul.

Between the addresses music was furnished by the Oklee and Plummer Concert Bands. Many brought their basket lunches, while others purchased refreshments from the stands on the grounds.

The sports part of the program consisted of a tug-of-war between the east and west half of the county, a tub race, swimming races, foot races, log rolling contests and a baseball game.

Arthur Prenevost, chairman of the grounds committee, and E. G. Buse, chairman of the sports committee and their helpers, are to be complimented upon the efficient way in which they handled their part of the program.



Clearing ground for Farm Bureau Picnic.

Delegations from all parts of the county assisted in making the Farm Bureau picnic grounds a place suitable for entertaining a large delegation.

Cost of Farm Bureau Work

The cost of Farm Bureau work to Red Lake County based upon the actual valuation of the county July 1, 1919, is fifteen thousandths mills per dollar valuation; or fifteen cents per thousand dollars valuation or .824 cents per 160 acres, or a little over one-half cent per acre.

When the benefits derived by members of the Association who have used the same are considered, the above cost is a very small matter. Several farmers in the county through use of the Farm Bureau have made hundreds of dollars during the past year. Use the Farm Bureau the coming year; it will make you money.



Noon hour—at the clearing—Farm Bureau Picnic Grounds.

The ladies enjoyed this holiday as well as the men. They helped burn the brush and prepared a fine warm lunch.



Farm Bureau Picnic Grounds located on island at right. Farm buildings of Ed. Cadieux on hill above the dam.



Section of autos at the Farm Bureau Picnic, Terrebonne, Minn.



A. D. Wilson addressing Farm Bureau Picnic, Terrebonne, Minn.

The Farm Bureau has a natural amphitheatre on its picnic grounds; 3,500 to 4,000 people spent an enjoyable day at the picnic.

Livestock

During the year just closing Red Lake County made great progress in a livestock way and interest in pure bred livestock continues to increase. This year sixty-eight pure bred cattle were added to the herds of the county, aside from these many purchases were made of pure bred sires and females from the herds within the county which were used in establishing



**Pure bred Shropshire sheep owned by Jacob Zimmer,
Red Lake Falls, Minn.**

During the past year several of Red Lake County's best farmers have started to raise pure bred Shropshire sheep.

new pure bred herds. Forty-five pure bred Shropshires and two thousand Western grade ewes were distributed throughout the county, some thirty pure bred boars and brood sows were also placed. The Farm Bureau was largely instrumental in this move toward better livestock. During the year we



Sheep feeding rack on wheels.

A convenient method of feeding sheep, and on a warm summer day it furnishes shade for a small flock.

This feeding rack is in use upon Jacob Zimmer's farm, Red Lake Falls, Minn.



A grade flock of Shropshire sheep, owned by George Peterson, Brooks, Minn.

There are no weeds in this pasture. Sheep upon the farm will help solve the weed problem.



**Montana sheep in Red Lake County, owned by Linnihan & Son,
Red Lake Falls, Minn.**

Two thousand sheep were shipped into Red Lake County this year. A flock like the above can accomplish wonders in weed control, and at the same time they are making money through their gain in weight for their owners.



**A pure bred flock of Shropshire sheep owned by L. J. Hesse,
Plummer, Minn.**

The day will soon come when there will be a flock of sheep upon every Red Lake County farm.



A community owned stallion.

This horse is owned by a group of farmers in Terrebonne township. They have had two community owned horses and have been very successful in this enterprise.



Holstein herd. Owned by F. A. Kellogg, Red Lake Falls, Minn.

This herd has been built up from an ordinary grade herd by use of a pure bred Holstein sire.

attended in company with Red Lake County farmers several pure bred livestock sales outside the county, chief among which were the Holstein sale at Moorhead, the Red River Valley Livestock Breeders' sale at Crookston, the boar and ram sale held under the same auspices in October and the sale of pure bred Angus held at Dominion City, Manitoba and from all these sales except the one at Moorhead, new additions were made to the herds of the county. The county was well represented at both the Crookston sales, and a local boar topped the sale in October. In November we conducted a combination sale of livestock at Plummer (it being centrally located in the county). This proved a grand success, selling over 275 head in four hours which brought over \$15,000. At the sale everything moved without friction or discord.

During the summer and fall months we have had representatives of the State and Government Livestock Sanitary Boards at work within the county, and have tested 623 head of cattle for farmers, finding only three reactors, which were immediately sent to the yards for slaughter. These reactors had but recently been brought into the county—making a clean record for all cattle that had been in the county over sixty days.

The local veterinarian was assisted in vaccinating 120 hogs for cholera and necrobacillosis.

The farmers, bankers and business men of the county have offered every assistance possible, both in time, money and labor in bringing about the good results of the year's work along livestock lines. For the coming year the banks of the county have agreed to furnish 6% money for the purchase of pure bred livestock, and have through their association agreed to furnish substantial premiums for a show and sale of the purchases which will be held in the conjunction with the 1920 County Fair.

The plan for this work has not been definitely arranged but we intend to confine ourselves to the leading breeds within the county which are Shorthorn and Holstein cattle, Shropshire sheep and Duroc-Jersey, Poland-China and Chester white hogs.

We are endeavoring to discourage a multiplicity of breeds and encourage a uniformity of pure bred livestock, believing that in the end it will be better for the community and more profitable to the owners. In securing this new stock our idea was to first ascertain the approximate number that would be

wanted and distribute them at cost by lot selection. We aim to see that they are cared for systematically during the year. We expect this project to culminate in a grand show at the Red Lake County fair. We are using to good advantage a lesson taught at the Plummer sale where an excellent grade cow sold for \$90 and her 1919 heifer calf, which was a good one, sold



**Holstein cow milking 65 pounds per day, owned by Derosier Bros.,
Red Lake Falls, Minn.**

Think of the barn room that can be saved by having cows which milk 65 pounds per day. A man is never ashamed to show such cows to people who may visit his farm. They always pay him for the trouble of taking care of them.

for only \$27. At this sale the same consignor sold three pure bred spring heifer calves for \$165 each which were out of cows purchased some time ago at prices from \$240 to \$300. All these cows and calves had the same care and feed and the grade livestock cost equally as much as the pure breeds other than the first cost and carrying charges on the cows.



**A good herd of grade Holsteins, owned by A. C. Menard,
Plummer, Minn.**



**Holstein bull, the type that builds up a herd, owned by L. J. Hesse,
Plummer, Minn.**

Good bulls should never be allowed to leave a community. If the bull is too high priced for an individual farmer to handle, several farmers should go together and organize an association whereby the herds of all might be benefited by having access to an outstanding sire.

This bull sold at the Holstein sale held at Crookston in February, 1920, for \$2,500.



Grade Holstein calves from a pure bred sire, owned by L. J. Hesse, Plummer, Minn.

It has often been said that a good sire is half the herd. Mr. Hesse has one of the good Holstein sires of the county, and it is very evident from the above picture that the sire has transmitted some of his good points to his offspring.



A good Holstein steer. Raised by A. C. Menard, Plummer, Minn.

This steer is not a year old, but was well fed, and when put upon the market brought more money than poorly fed steers of beef breeding.

As our banks advance money on pure bred livestock at the rate of 6% the cost of carrying the \$250 cow was \$15 above feed cost, and the calf income was \$165, giving a profit of \$150 or 60%, while the cost of carrying a \$90 grade at 10% was \$9 with a calf income of only \$27, leaving a profit of \$18 or only 20%, showing a 40% net profit in favor of the pure bred and teaching again the lesson of greater profit in better livestock.

Farmers Testing Livestock for Tuberculosis.

W. E. Rose, Plummer; Red Lake County Investment Co., Red Lake Falls; P. J. Gustafson, St. Hilaire; C. O. Swanson, Red Lake Falls; Derosier Bros., Red Lake Falls; Albert Paradis, Brooks; Octave LeFaivre, Red Lake Falls; Frank Jeffers, Red Lake Falls; Arthur Swanson, St. Hilaire; Hans Hogquist, St. Hilaire; John Konickson, St. Hilaire; E. J. Thyren, St. Hilaire; Paul Thyren, St. Hilaire; W. A. Schroeder, Brooks; William Allen, Brooks; Thomas Dennison, Brooks; Joe Suprenant, Red Lake Falls; Omer Laurent, Red Lake Falls; Jeffers & LaBissoniere, Red Lake Falls; Joe Wagner, Red Lake Falls, and Mortenson Bros., St. Hilaire.



A seven-months-old Holstein bull calf. Grand Champion Red Lake County Fair. Owned by Derosier Bros., Red Lake Falls, Minn.

Good feeding counts in the raising of young livestock and if an animal is stunted from lack of feed while young and growing it will never be worth as much as the well fed, well grown-out individual.

This bull calf won first prize in his class at the livestock show at Crookston in February, 1920. Derosier Bros. were offered \$1,000 for him but kept him to head their herd.



**An excellent type of a Shorthorn cow. Owned by Jacob Zimmer,
Red Lake Falls, Minn.**

Last summer Mr. Zimmer refused \$1,000 for this Spicy Shorthorn.



The old herd sire of W. A. Schroeder, Brooks, Minn.

This year Mr. Schroeder and Mr. Allen of Brooks, purchased a \$1,000 bull to head their herds.

To our knowledge the following people have purchased pure bred livestock during the year. The most of it has been used to start new herds in the county:

Anton Zins & Son, Red Lake Falls; Patnode Bros., Red Lake Falls; J. F. Jahnke, Red Lake Falls; Rudolph Jahnke, Red Lake Falls; L. H. Jahnke, Red Lake Falls; Arthur Zutz, Red Lake Falls; Derosier Bros., Red Lake Falls; Ovilla Robillard,



A pure bred Shorthorn heifer. Owned by Frank Jeffers, Red Lake Falls, Minn.

This heifer when fully developed promises to be a winner. Good individuals, good feed and good care make the winners.

Red Lake Falls; William Sharper, Red Lake Falls; Walter Columbus, Red Lake Falls; John Duffy, Red Lake Falls; Frank Jeffers, Red Lake Falls; Art Steel, Red Lake Falls; Joseph La Plante, Red Lake Falls; Leon Huot, Red Lake Falls; Albert Paradis, Brooks; John Zornig, Red Lake Falls; James Dreelan, Wylie; Mano Rasanen, Plummer; L. Munig, Plummer; M. J.

Fallon, Plummer; L. J. Hesse, Plummer; A. G. Smith, Red Lake Falls; Joe Suprenant, Red Lake Falls; Louis Parenteau, Red Lake Falls; Earl Smith, Erskine; E. E. Hill, Brooks; Joe Bergeron, Brooks; A. F. Turgeon, Brooks; P. J. Gustafson, St. Hilaire; Swan Walhaug, Plummer; Olaf Tande, Plummer; Albert Brooks, Plummer; John Seibles, Ruddell; W. A. Shroeder, Brooks; W. D. Allen, Brooks; Thomas Dennison, Brooks; H. E. Vandervaal, Erskine; C. W. Royer, Brooks; H. W. Tschirgi, Brooks; Ray Wichterman, Rhoda; A. J. Hiney, Brooks; Frank Ford, Red Lake Falls; Thomas Moreau, Brooks; Ildaige Baril, Red Lake Falls; David Cyr, Red Lake Falls; Joe Wagner, Red Lake Falls; Flage Bros., Red Lake Falls; Manor & Burch, Red Lake Falls; Will Eukel, Red Lake Falls; W. R. Holcomb, Plummer; Jeffers & LaBissoniere, Red Lake Falls; Joe Champeau, Red Lake Falls; Loeffler Bros., Red Lake Falls; Joe Wagner, Red Lake Falls, and Joe Mercil, Brooks.



A scrub is detrimental to the herd.

As land increases in value the farmers who succeed must in like manner change their methods of farming. There is no place upon the farms in Red Lake County today for the scrub cow if farmers are to make a success of cattle raising. Only a philanthropist can afford to raise scrub cattle, because the raising costs more than they can market them for:

If you sell breeding stock, the scrub in your herd detracts value from your good animals as the buyer loses confidence in the animal he is about to purchase for fear of scrub blood it might have.



Culls going to market.

The raising of cull cattle takes all the profit from the cattle business. No successful cattle raiser ever made his success in feeding culls.



The best carload of cattle shipped this year by E. E. Hill and Earl Smith of Brooks, Minn.

They topped all other shipments by 3 cents a pound.

Two shipments of cattle raised by Red Lake County farmers are shown above. There is no question which shipment you would take if you were to receive the pay check. Raise cattle that bring you the most money. Put a good, pure bred bull at the head of your herd. This will help you to accomplish the above results.



The Passing of the Scrub.

This scrub bull is on his way to South St. Paul. Every scrub bull in Red Lake County should be making the same trip. No cattle raiser can hope to attain the success that he desires, if he allows a scrub to head his herd. There are scrub pure breds as well as scrub grades. The scrub pure bred is no better than the scrub grade. Use the best; it pays in the long run. If you cannot afford to purchase the best get one or two of your neighbors to go in with you and buy the best.



Grand Champion Chester White Boar, at Red Lake County Fair.
Owned by Derosier & Robillard, Red Lake Falls, Minn.
 An excellent type of big-boned Chester White hogs.



A Thousand Dollar Litter of Chester White Pigs. Owned by Derosier & Robillard, Red Lake Falls, Minn.

These pigs were grand champion winners at the Red Lake County Fair. Six boars from this litter were sold for a little better than \$600. This was double the amount of the original investment. It pays to raise well bred livestock.

A boar and a gilt from this litter were the grand champions at the Chester White Hog show at Crookston in February, 1920.



Well fed hogs bring the best price. The four hogs in above picture were raised by E. E. Hill, Brooks, Minn.



Pure Bred Duroc-Jersey Hogs. Owned by Arthur Zutz, Wylie, Minn.

Last summer Mr. Zutz bought a boar to head his herd, which was sired by Big Challenger—a \$3,000 boar.



The foundation of a Pure Bred Herd of Poland-China Hogs. Owned by L. H. Jahnke, Red Lake Falls, Minn.

Mr. Jahnke has the right idea about starting a pure bred herd of livestock. If an individual is not good enough for him to use he sells it on the market and not as registered stock.



Pure Bred Poland-China Hogs.
Owned by Ferdinand Jahnke, Red Lake Falls, Minn.



Pure Bred Poland-China Hogs. Owned by Jahnke Bros.,
Red Lake Falls, Minn.

Crops

Early in the spring the Farm Bureau sent out an agricultural questionnaire to all the farmers of the county. The information derived from this questionnaire was used to assist 657 people in selling and purchasing 18,177 bushels of seed grain, 11,480 pounds of grass seed, 363 tons of hay, 294 cords of wood and 1,197 head of livestock.



Rye grown by Charles Patnode, Red Lake Falls, Minn.

Weeds do not like winter rye. It grows too fast and ripens too soon to suit them. Rotate your crop and use rye to assist in killing weeds upon your farm.

Fifteen pure seed wheat plots were planted, but owing to the cloudburst on July 2nd, when ten inches of rain fell in twenty-four hours, and the two weeks of rain which followed so damaged the seed grain plots and grain in general that yields were not reported.

Seventeen farmers were helped to dispose of 400 bushels of first-class seed corn, practically all of this corn was planted in the county. Weather conditions were favorable for corn and a good yield was secured this fall. We feel, however, that this yield in a large measure was due to the good home-grown seed planted this spring.

A smut campaign was conducted by the Farm Bureau.



Red Lake Falls, Minn.

Winter rye does well in Red Lake County. George Remick harvesting a good crop of rye.



Wheat Field Raised by H. L. Premo, Brooks, Minn.



**A field of Certified Marquis Wheat. Grown by Edmund J. Porter,
Red Lake Falls, Minn.**



**Red Lake County Wheat. Grown by P. J. Gustafson,
St. Hilaire, Minn.**
Mr. Gustafson always treats his grain with formaldehyde.



**A Field of Red Lake County Wheat. Grown by George Walker,
Red Lake Falls, Minn.**



Wheat Grown by Leon Huot, Wylie, Minn.



Wheat Grown by M. O. Sortedahl, Red Lake Falls, Minn.

Sections of Red Lake County are lightly wooded with poplar timber, when cleared this is the finest kind of farm land and will produce big yields of grain and other crops.



**A Wheat Field in Eastern Red Lake County. Grown by
Knute Erickson, Oklee, Minn.**



**Farm scene showing field of grain and old barn on farm owned by
J. A. Duffy, Red Lake Falls, Minn.**

In the section on farm buildings you will note the modern barn which replaced this one. Good crops make it possible for farmers to build good buildings.



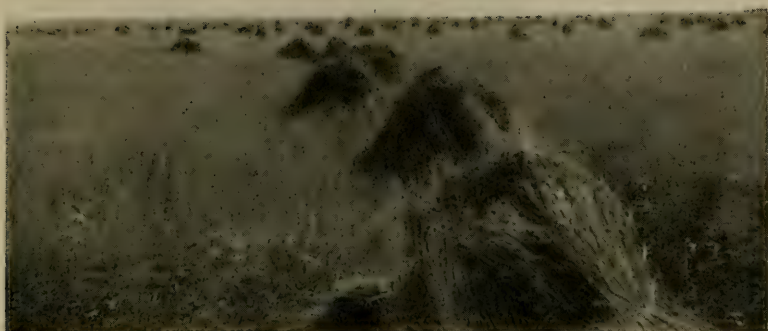
**A Bumper Crop of Wheat on poplar cleared land in Red Lake County.
Grown by Edwin Jacobson, Plummer, Minn.**



**Oat Field, Red Lake County. Grown by Clifford Longtin,
Red Lake Falls, Minn.**



Cutting Grain with a Tractor. Joe Skala, Red Lake Falls, Minn.



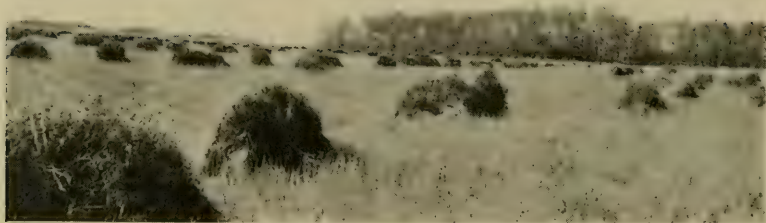
Marquis Wheat Raised by V. M. Healy, Red Lake Falls, Minn.
This 80 acres produced better than \$3,000 worth of small grain.



Marquis Wheat Raised by W. R. Holcomb, Plummer, Minn.



**Flax Grown by Philip Demarais, Red Lake Falls, Minn.
Red Lake Falls, Minn.**



**Buckwheat Helps to Destroy Weeds. Grown by Landa Bros.,
Red Lake Falls, Minn.**

When buckwheat is plowed under, it makes excellent green manure.

From reports made by elevators and millers of Red Lake County, the actual loss by smut in wheat sold in 1918 amounted to \$32,679. The total loss would be greatly in excess of these figures as it would include damage to wheat, barley and oats in the field. As a result of Farm Bureau efforts and those of the agricultural press the use of formaldehyde for treating seed grain increased in the county 207%.



Corn, Red Lake County, July 15, 1919. Grown by Willie Montreuil, Red Lake Falls, Minn.

One of the most difficult problems that confronts the Farm Bureau in crop work is that of labor. It is a hard thing to be able to have all the help you are asked to furnish just on a minute's notice. The Farm Bureau, however, assisted in helping twenty-four farmers last year with their labor problems.



**Field of Northwestern Dent Corn. Grown by Evangelist Quesnell,
Red Lake Falls, Minn.**

Northwestern Dent Corn makes much better fodder than the large varieties of Southern grown corn, that are used for this purpose.

Fodder corn makes about twice as good feed as straw. Every farm should have its field of fodder corn.



**A Field of Minnesota No. 13 Corn. Grown by W. A. Riechel,
Red Lake Falls, Minn.**

Mr. Riechel believes in selection of home-grown corn for seed. For the past 15 years he has grown a corn crop each year from his own home-grown seed. He raises Minnesota No. 13, Minnesota No. 23, Northwestern Dent and White Flint corn.



A typical field of Minnesota No. 13 Corn. Grown by W. A. Riechel, Red Lake Falls, Minn.

If care is taken in the selection of seed corn, it can be raised with a reasonable degree of certainty each year in Red Lake County. In fattening value, corn as a feed is nearly twice that of oats and better than barley.



Mangles make good feed. Grown by Joe Zins, Red Lake Falls, Minn.

A succulent crop which will give enormous yield if you will but raise them. Livestock like them. From 10 to 15 tons can be raised upon one acre of ground.



**A Red Lake County Clover Field. Grown by Carl Ulrich,
St. Hilaire, Minn.**

Do you suppose the owner of this field of clover hay would trade it for an equal amount of wild hay? We are certain he would not. Your stock will do better on clover than upon wild hay.



Group of Lambert Farmers.

At the home of Joe Bergeron, Brooks, Minn., to discuss farming problems.



**An excellent stand of Timothy Hay raised by Eric Thyren,
St. Hilaire, Minn.**

Timothy hay is better feed than the best wild hay that can be obtained.



**Clover and Timothy Hay yielding 3 tons per acre. Grown by Joe
Wagner, Red Lake Falls, Minn.**

More clover and timothy hay should be raised for feed. It contains nearly twice as much protein as prairie hay. Protein is a part of the feed that puts bone and muscle on the animal. Every farm should have a good clover and timothy field and not have to depend upon wild hay for roughage for its livestock.



**Second Crop of Medium Red Clover to be Cut for Seed. Grown by
H. L. Premo, Brooks, Minn.**



**A fine stand of Sweet Clover. Grown by Jacob Zimmer,
Red Lake Falls, Minn.**

To look at the picture is evidence enough that sweet clover grows well in Red Lake County. Sweet clover is a profitable crop to raise. It makes good hay when cut at the right time. The past few years, as a seed crop, it has been more valuable than wheat. It enriches the land upon which it is grown and chokes out weeds. Raise more sweet clover.

Potatoes

As illustrated by pictures, an excellent demonstration is shown between Green Mountain and Burbank potatoes. The potatoes were grown by Henry Porter and dug from alternate rows. The two rows had to be dug before picking and it was impossible to use the two rows along side of each other. Note the pictures showing the individual rows, and the piles of dug potatoes. The Green Mountain yielded thirty-eight bushels to the row and the Burbank nineteen bushels. This meant that if

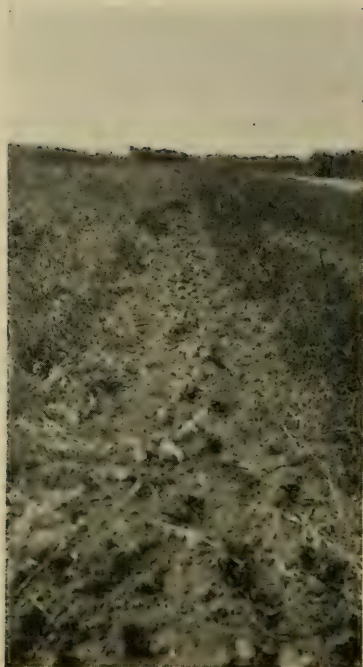


**Sorting Potatoes at digging time. Edmund J. Porter,
Red Lake Falls, Minn.**

A great deal of time and labor can be saved if seed potatoes are picked at digging time. All the potatoes are scattered before you and you simply have to pick up the good ones. A much easier job than digging through the bin to find them.

Many times you do not find them because the wife has used them for your dinner. You can't blame her a bit. The safest thing to do is to "beat her to it."

Good seed potatoes bring results at harvest time.



Burbank Potatoes. Grown by Henry Porter, Red Lake Falls, Minn.

This row of potatoes yielded 19 bushels.



Green Mountain Potatoes. Raised by Henry Porter, Red Lake Falls, Minn.

Green Mountains are heavy yielders. This row yielded 38 bushels.



Burbanks on the left and Green Mountains on the right. Grown by Henry Porter, Red Lake Falls, Minn.

The two piles of potatoes came from the same amount of ground, and were grown along side each other. The Burbanks yielded 19 bushels and the Green Mountains 38 bushels. Both the Green Mountains and Burbanks are late white potatoes.

Henry Porter had had all Green Mountain instead of Burbanks this year he would have had an extra car of potatoes to ship. If all of the people of the county who raise Burbanks, would plant Green Mountain potatoes, they would get much better yields.

Both the Green Mountain and Burbank are late potatoes.

The Green Mountain is not as liable to damage by potato bugs as is the Burbank. Thirty seed plots of potatoes were planted by farmers in various parts of the county. No check of these plots was made as most of them were drowned out in July.

Fifteen farmers were interested in potato seed certification, but owing to the excess moisture, only parts of seed plots of the Early Ohio passed inspection as being free from disease. Several fields of Green Mountain passed the inspection for disease, and we expect an increase acreage in this variety of potatoes in the county the coming year.

The use of corrosive sublimate in the treating of seed potatoes increased in the county during the past year 500%.

The Farm Bureau has assisted farmers in the county in securing 300 bushels of certified seed potatoes for spring planting.



Potato Field. Grown by Mat Skala, Red Lake Falls, Minn.

The potatoe vines must be kept in a healthy condition in order to secure a good yield at digging time. This is a 90-acre potato field.



Harvesting potatoes in Red Lake County. Field grown by Edmund J. Porter, Red Lake Falls, Minn.

Jeff Porter did not believe in treating potatoes for disease with corrosive sublimate. His son, Edmund, was willing to take a chance. When it came to digging time, Jeff Porter was as pleased with the results of treating as was his son. The treated potatoes were a better quality and yielded twice as much per acre as the untreated field.



A fine stand of potatoes grown by Dan Hart, Brooks, Minn.

In order to raise a good crop of potatoes the field must be kept free from weeds.

Farm Improvements

FARM BUILDINGS.

We believe the year 1919 has marked a milestone on the road to better farm homes and buildings in Red Lake County. This year forty homes and fifty-four barns have been erected. The Farm Bureau does not assume much credit for the erection of these buildings, but we feel, however, that it has played its part in the bringing of twenty-seven new silos to the County. We feel that the silo is a most important farm structure, and one that pays the largest dividends on the farm. We hope to see one hundred silos put upon the farms of Red Lake County the coming year.



Home of Swan Akenson, Red Lake Falls, Minn.
Red Lake Falls, Minn.
A prosperous Red Lake County farmer.



Home and Farm Buildings of Ingovold Husby, Plummer, Minn.



**One of Red Lake Counties modern dairy barns. Owned by J. A. Duffy,
Red Lake Falls, Minn.**

Fifty-seven new barns and twenty-seven silos have been built in the county in the past year.



**A Pioneer Resident in Red Lake County. Joe Laurent Homestead,
Terrebonne, Minn.**



Home of Joseph Bergeron, Brooks, Minn.



Farm Buildings on Farm of Joseph Bergeron, Brooks, Minn.



Farm Home of Henry Gerloch, Red Lake Falls, Minn.
A field of timothy in the foreground.



Farm Home of Fremont Severson, Wylie, Minn.

Boys' and Girls' Club Work

With the assistance of some of the school teachers of the county twenty-four boys and girls were enrolled in potato club work. The plots received excellent care until the Fourth of July; after celebrating the national holiday many of them did not need further attention as they were drowned out.

Daniel Remick of Red Lake Falls, and William McBroom of Plummer, won a trip to the State Fair for having the best plots in the county. We do not have the final reports of the yields as yet, but expect to get them soon. The following boys and girls in the Potato Club work won prizes at the state



Daniel Remick, Red Lake Falls, Minn., winner of first prize in Boys' and Girls' Potato Club Contest.

We are sure there is not a boy in Red Lake County who would not smile when informed by one of the state club leaders that he had the best one-eighth acre plot of potatoes in the county. He won a place at the Red Lake County Fair and at the State Potato Show at Moorhead.

potato show at Moorhead: Daniel Remick, Red Lake Falls; William McBroom, Plummer; Keough Patnode, Red Lake Falls; Louis LeFaivre, Red Lake Falls; Stella Swanson, Plummer; Alpheon Bergeron, Brooks; Alexine Bergeron, Brooks; Celia Bergeron, Brooks.

The coming year we hope to have in addition to Potato Club work, a Poultry Club project, a Dairy Calf Club project, a Beef Calf Club project, and a Pig Club project.

We are sure when you read Daniel Remick's letter about his trip to the State Fair many more Red Lake County boys and girls will want to be winners in boys' and girls' projects:

Red Lake Falls, Minn., Sept. 23, 1919.

Mr. C. C. Lake, Red Lake Falls, Minn.

Dear Sir: I will try to tell you about my trip to the State Fair. I left here August 29th, arriving at Minneapolis Saturday morning, although they had given us directions how to get to the camp, I was a little afraid I would get mixed up with all those street cars running every way, as I hadn't been in the Cities since I was eight years old. After I got on the train



Alpheon, Alexine and Cecilia Bergeron, Potato Club Girls, studying potato diseases. Brooks, Minn.

Potato diseases, unless controlled, take half of your potato crop.

at Crookston I met a boy who had been at the camp before and he led the way.

The camp is on Machinery Hill and was at one time an old Y. M. C. A. building. When I got there the boys were all playing baseball. There were one hundred and fifty boys at the camp. Experts came and took us about and showed us all the farm machinery where I saw a Holland wild oats cleaner which interested me greatly. Other experts came and took us to the stock barn where I saw a milking machine.

Every day a man would take forty or fifty of the boys to



**William McBroom, Plummer, Minn., hoeing the weeds
from his potato plot.**

William won second in the Boys' and Girls' Potato Club Contest last summer and had a free trip to the State Fair as a partial reward for his work. Though William is but a boy, he raised a better crop of potatoes than his father. He treated his potatoes with corrosive sublimate and won a place on a peck he selected at Plummer market day, Red Lake County Fair, and in the boys' and girls' section of the State Potato Show at Moorhead.

the Cities and show them the most important parts.

In the afternoon and evenings we had to usher on the grandstand, but we met lots of people and could see all that went on in front of the grandstand free. There was lots to see. While we were on the Fair Grounds we could go in anywhere free. Every night we had to be in at a certain hour.

We had the honor of saying hello to Theodore Roosevelt, Jr., and General Wood.

The most important thing that went on in front of the grandstand was four well trained elephants, one would play the piano and the other would keep time. They played war; a machine gun was placed on the back of one of them; one elephant fell over and pretended he was wounded and he would not get up until they tied a rag around his leg, then he got up and walked on his knees.

I could write lots more but I guess I have written enough. I saw a lot of things, but did not see enough; so I am going to try to go back next year to see more.

From a Club Member,

DANIEL REMICK.

Markets

Red Lake County has twelve elevators and for the year ending July 1, 1919, bought 1,401,384 bushels of grain and paid \$1,819,811 for same.

Red Lake County has farmers' co-operative elevators at Oklee, Brooks and Wylie, and this summer the farmers built an elevator at Dorothy. This elevator has handled 18,277 bushels of grain this fall, paying \$29,353 for the same. The farmers' elevators of the county handled \$16,343 worth of binding twine.

Red Lake County has four farmers' co-operative livestock shipping associations. Last year they shipped 132 carloads of livestock.

Red Lake County has two flour mills which ground 140,000 bushels of wheat into flour last year. The Terrebonne Milling Co. paid to its patrons \$3,700 in premiums for high grade wheat. These mills grind annually for the farmers 120,000 sacks of grain for feed.

A development project is under way whereby the Terre-

bonne Milling Co. may furnish electric power for the eastern portion of the county.

Red Lake County has three farmers' co-operative and three private owned creameries. Last year they made 388,847 pounds of butterfat into butter. The average price paid for butterfat was 50.62 cents per pound, making a total to the farmers of the county for butterfat \$196,834.35.

Red Lake County has four cheese factories and in all probabilities they received as much butterfat as the creameries making a total value of dairy products in the county \$393,-668.70.



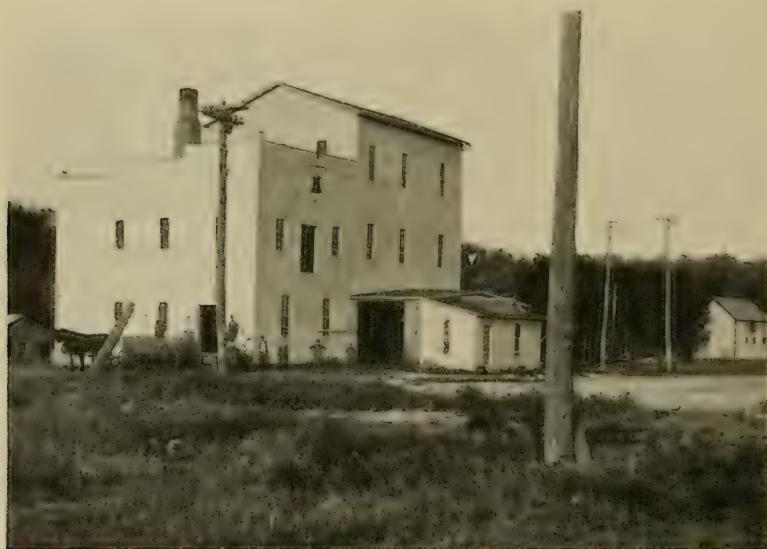
Elevators. Oklee, Minn.

Co-operative Elevator (in the foreground) for the year ending July 1, 1918, paid \$309,539.78 for 208,518 bushels of grain. In addition to the grain business they sold \$966.81 worth of seeds, \$14,932.09 worth of flour and feed, \$3,749.89 worth of twine and \$4,480.66 worth of coal.



Terrebonne Milling Co., Terrebonne, Minn.

The best equipped mill of its size in the state. Ground 75,000 bushels of wheat into flour in the last year. This mill grinds 60,000 sacks of feed for the farmers yearly.



Flour Mill, Steinert Milling Co., Red Lake Falls, Minn.

This mill ground 65,000 bushels of wheat into flour last year and 60,000 sacks of feed for the farmers in the community.



Elevators. Brooks, Minn.

In foreground is the Farmers' Co-operative Elevator. For the year ending July 1, 1918, it paid \$161,520 for 194,749 bushels of grain.

In addition to the grain business they sold \$435,455 worth of flour, \$713.24 worth of feed, \$841.80 worth of seed, \$7,278.85 worth of twine, \$525.20 worth of machinery.



Tow Mill, Red Lake Falls, Minn.



Farmers' Co-operative Creamery, Plummer, Minn.

One of the best built and equipped creameries in Minnesota. In 1918 this creamery received 128,492 pounds of butterfat. The patrons received an average price of 53.3 cents per pound for their butterfat.



Farmers' Co-operative Creamery, Oklee, Minn.

In 1918 the Oklee Farmers' Co-operative Creamery received 84,390 pounds of butterfat, and paid an average price of 53.2 cents per pound for same to the farmers of its community.

Roads

The public highway is of great importance to the agricultural interests of a county. It can be readily seen by glancing at the pictures upon this subject that Red Lake County has an excellent system of roads.

The county has 102 miles of state highway which connect all the towns and villages of the county. This road is all graded and is efficiently maintained by a patrol system.

Forty-three miles of the Red Lake County state road system are included in the proposed trunk highway system.

Thirty miles of state road will be graded and graveled in 1920. It is estimated that in five years all of the present state roads will be graded. More state roads are to be added and in a comparatively short time every farmer in the county will be supplied with a gravel road.

Nearly all of the bridges on the present state road system have been replaced by steel and concrete structures.

Red Lake County is extremely fortunate to have gravel deposits located in convenient parts of the county for its road construction work.



Jefferson Highway Crossing Red Lake River near
Red Lake Falls, Minn.
One of Red Lake County's beautiful stretches of road.

The past four years Red Lake County has been spending an average of \$37,875 per year for the construction of roads and bridges and their maintenance. This is the reason Red Lake County has the best roads in Northern Minnesota.

Be a good road booster. It boosts the value of your farm land.



Red Lake County has good roads.

A portion of Red Lake County's state highway system. During the coming year Red Lake County expects to grade and gravel thirty miles of road.



The Old Clearwater Bridge.

This old bridge which was not safe for heavy traffic was replaced this year by the new concrete structure shown below.



**Concrete Bridge on Jefferson Highway across Clearwater River, at
Red Lake Falls, Minn.**

This bridge cost \$29,700 when built in 1918.

Red Lake County believes it pays to build only the best bridges and roads.



Red Lake Falls Civic League and Commercial Club entertaining the Jefferson Highway touring party consisting of Thomas H. Johnson, Commissioner of Agriculture for Manitoba; Gov. Ruffin C. Pleasant of Louisiana and General Manager J. D. Clarkson of the Jefferson Highway Association of St. Joseph, Mo.

Manager Clarkson stated they made up all of the time lost on their schedule between Minneapolis and Red Lake County on Red Lake County's good roads.



Gravel Pit Owned by Ed. L. Healy, Red Lake Falls, Minn.
Hauling gravel during the winter months to make Red Lake County roads famous.

Red Lake County Fair

The Red Lake County Fair this year was good and President Dr. Watson and his associate directors are to be congratulated upon the success of their efforts. It had an excellent exhibit of vegetables and grains. The livestock section was the best it has ever been. Heretofore outside breeders



Indians from Red Lake Indian Reservation, Beltrami County.
Red Lake County Fair.

The Indians gave a splendid account of themselves, doing war dances, LaCrosse, and foot racing.

have been brought in to show their pure bred herds. This year practically all of the livestock shown was pure bred and the best part of it was that it was owned by Red Lake County farmers. The Farm Bureau was directly responsible for a great deal of the good livestock being in the county. The coming year we believe that the livestock section of the Red Lake

County Fair will be one of the best livestock shows in Northern Minnesota.

One of the distinctive features of the fair was its sports, the most of which were furnished by home talent. This we feel was at it should be—the county fair should be the people's fair, and money spent for prizes in this way goes back to the community instead of into professional hands who care nothing for the future development of the county. The sports consisted of Olympic and Caledonian games. The Indians from Red Lake Agency in Beltrami County added much to this part of the program winning events as well as giving a splendid exhibition of LaCrosse, which was very much enjoyed by everyone present. One day was designated as Welcome Home Day for soldiers, sailors, marines and nurses, on this day athletic events were held in which they alone competed.



Section of Corn Exhibit. Red Lake County Fair.



Section of Corn, Grain and Potato Exhibit. Red Lake County Fair.



Section of Vegetable Exhibit. Red Lake County Fair.



Section of Apple Exhibit. Red Lake County Fair.



Section of Canned Fruit Exhibit. Red Lake County Fair.

Red Lake County Poultry Breeders' Association

The Red Lake County Poultry Breeders' Association was organized by the Farm Bureau the latter part of February, 1919, at Plummer. The officers elected at this time held office only until such time in the spring when the roads were in suitable condition to call a county-wide meeting. This was done in May, all the people in the county were notified by the Farm Bureau of the meeting and urged to be present and help perfect the county poultry organization. The same officers were elected to hold office for another year.

The work accomplished along poultry lines during the year is almost entirely due to the excellent co-operation of the association.



Even chickens like an old bach.
A Red Lake County Booster, Wm. Bottineau, Plummer, Minn.

POULTRY PICNIC.

Red Lake County Poultry Breeders' Association held their first annual picnic upon the Farm Bureau picnic grounds at Terrebonne.

The picnic was attended by 500 people interested in poultry raising. An excellent program was given. Prof. N. E. Chatman, from the University Farm, St. Paul, was the principal speaker. When Mr. Chatman had finished his talk on poultry we all realized what we were missing by not raising more and better poultry.

A basket lunch was served, which had a bountiful supply of fried spring chicken, a very appropriate suggestion for a poultry picnic.

Races of various kinds were held during the afternoon, thus making the day an outing for both young and old.

Standard bred poultry should be raised upon every Red Lake County farm. We feel sure that next year the poultry picnic will be one of the big affairs of the county.



The Passing of the One-Horse Shay. Red Lake County Poultry Breeders' Picnic, Terrebonne, Minn.

Poultry raising must be profitable in Red Lake County, for all the breeders except one came in their automobiles.



Some of Red Lake County's Chickens.



Red Lake County Poultry Breeders' Picnic, Terrebonne, Minn.

The poultry breeders spent an enjoyable day at the Farm Bureau picnic grounds. Five hundred people came to hear N. E. Chatman, Poultry Specialist of University of Minnesota.

RED LAKE COUNTY POULTRY SHOW.

The Red Lake County poultry breeders had a most successful show at Plummer. Prof. C. E. Brown stated it was the best one he had ever seen for the first show, 460 birds being shown.

G. A. Krueger and S. J. Rice of Plummer, are almost entirely responsible for the success of this event.

We know as a direct result of this show—one Red Lake County farmer purchased a flock of good standard bred chickens.

We hope to see 1,600 exhibits at the poultry show next year.



White Leghorns. Red Lake County Poultry Show, Plummer, Minn.

D. M. McGinn, Thief River Falls, Minn., winner of cup awarded by Citizens' State Bank of Red Lake Falls, Minn.



**White Plymouth Rocks. Red Lake County Poultry Show,
Plummer, Minn.**

G. A. Krueger, Plummer, Minn., winner of cup awarded by Farmers' State Bank of Plummer.

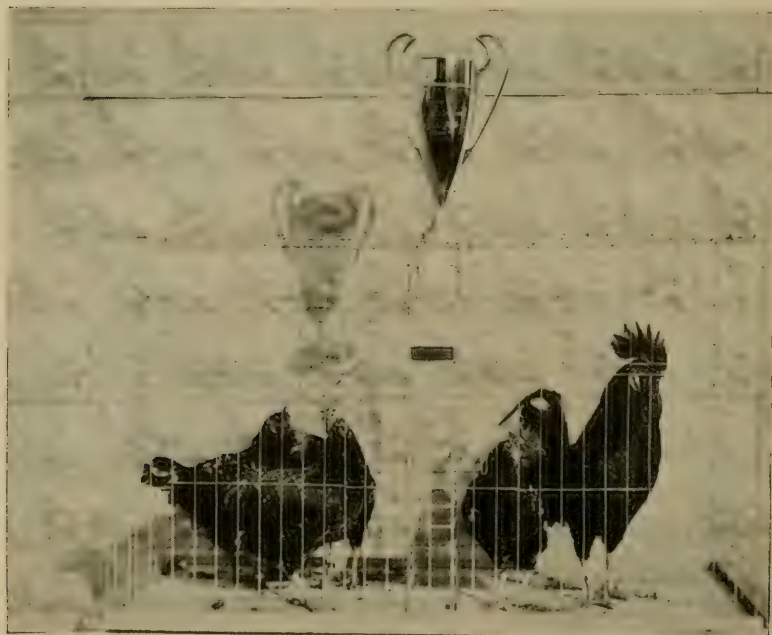


**Rose Comb Rhode Island Reds. Red Lake County Poultry Show,
Plummer, Minn.**

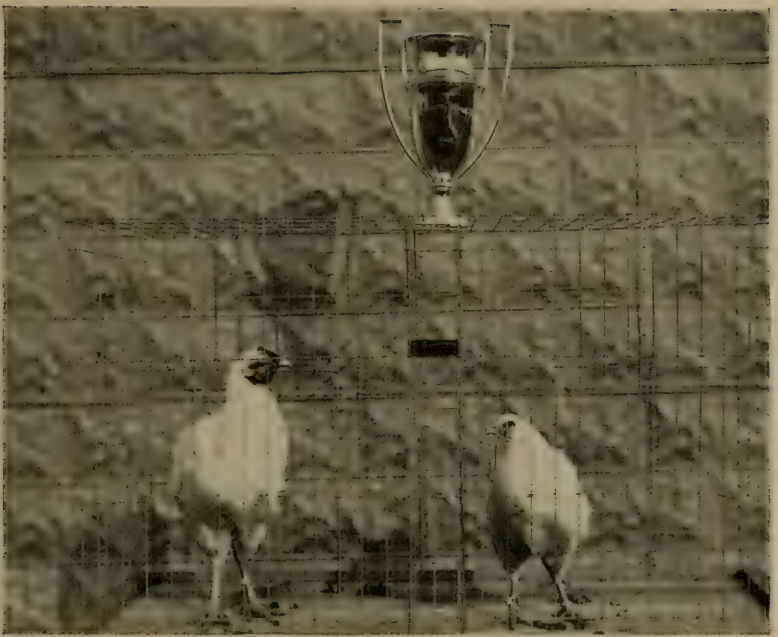
S. J. Rice of Plummer, Minn., winner of cup awarded by Farmers' and Merchants' State Bank of Oklee.



White Wyandottes. Red Lake County Poultry Show, Plummer, Minn.
 Tobias Reep, Plummer, Minn., winner of cup awarded by First State Bank of Brooks, Minn.



Mottled Anconas. Red Lake County Poultry Show, Plummer, Minn.
 S. J. Rice, Plummer, Minn., winner of cup awarded by First State Bank of Red Lake Falls.



White Plymouth Rocks. Red Lake County Poultry Show, Plummer, Minn.

Althea Krueger, Plummer, Minn., winner of cup awarded by Farmers' National Bank of Red Lake Falls, Minn.



Buff Orpingtons. Red Lake County Poultry Show, Plummer, Minn.

H. F. Erickson, Thief River Falls, Minn., winner of cup awarded by Merchants' State Bank of Red Lake Falls, Minn.

Plummer Market Day

Plummer has had market days in past years, but this year it was more extensive than ever before. Aside from the sports, an excellent exhibit of vegetables and grains was shown. The farmers' clubs in the vicinity of Plummer had exhibits which would have done credit to some county exhibits at the State Fair.

In connection with the market day activities, the poultry breeders held their first poultry show. We feel that market days like this can be of great value in assisting to make the county fair the agricultural success it should be in every



Cloverland Farmers' Club Exhibit.

Plummer Market Day. Winner of first place. Also winner of first place at Red Lake County Fair.

county. Practically all the winners of prizes took their exhibits to the county fair. Many of these exhibits would not have been shown on account of the long distance to take them had it not been for the fact that they won in their own community and might have a chance in the bigger classes at the county fair.



Gervais Alert Farmers' Club Exhibit.

Market Day, Plummer, Minn. Winners of second prize at Plummer and at the County Fair.



The countryside turned out to attend the Plummer Market Day.

The business men of Plummer decided to take a day off and enjoy themselves with the farming community about their village. Delegates were called in from adjoining farmers' clubs and the day's entertainment planned consequently it is not at all surprising that when the big event came off, everyone came in to help make it a success.



Everybody Out. Plummer Market Day.

The boys on the truck are engaged in a string-eating contest to see who will be successful in getting the prize and the candy at the end of the string.



Cloverland Farmers' Club.

Winner of Enderle cup for the best Farmers' Club exhibit at Plummer Market Day, and also winner of the best farm club exhibit at Red Lake County Fair.



Auto Balancing Contest. Market Day, Plummer, Minn.

This contest created a great deal of interest. Two planks were put over an 8x8 timber with a 2x2 strip nailed on top to balance upon. Nobody won this prize, but several thought they were going to. Try it—it is good sport.



Lots of Fun. Potato Race. Market Day, Plummer, Minn.

The young people enjoy activities of this kind. They not only are good sports for the participants, but furnish a lot of amusement for the onlookers.



Shoe Race. Market Day Sports, Plummer, Minn.

All of the boys you see hurrying to put on their shoes have had them tied together and shaken up in a barrel. The boy who was able to get his shoes out of the barrel and on his feet first, won the prize.



Boosters' Farmers' Club Exhibit.
Plummer Day. Winner of third place.

United War Work Campaign

Last year considerable time was spent in assisting with war work activities. The United War Work Campaign was the only one of these projects which overlapped into the new year.

Through the assistance of the Farm Bureau a little more than the quota for this work was raised.

Red Lake County was the only county in Northern Minnesota to meet all of its quotas for Red Cross and war work. The Farm Bureau was largely instrumental in accomplishing this fine piece of work.

Miscellaneous



Apiary of Carl Gerlach, Red Lake Falls, Minn.

The county has several well kept apiaries. Some of them pay their owners handsome returns.



Apple Trees in Bloom, Red Lake County, Minn.



Strawberry Picking.

Showing two sure crops. Grown by W. A. Riechel, Red Lake Falls, Minn.



Women's Rest Room, Red Lake Falls, Minn.
Every town and village should have such a room.



Birdseye View of Red Lake Falls, Minn.



Lincoln Hotel, Red Lake Falls, Minn.

The Lincoln Hotel, a \$50,000 building, was erected by the people of Red Lake Falls, and the surrounding community. The hotel is one of the best in Northern Minnesota.



Section of Main Street, Red Lake Falls, Minn.



Corner of Business Block, Brooks, Minn.



Small Section of Business District of Oklee, Minn.



Lost River near Claud Royer's Farm, Brooks, Minn.

Schools

Red Lake County has as fine schools as there are to be found in the state. There are fifty-four rural schools, two consolidated schools, one high school and one parochial school in the county. The schools of the county were attended last year by 1,924 pupils. During the coming year the county expects to add another consolidated school to its school system.

The Red Lake County Chapter of American Red Cross and County Commissioners have made it possible to secure the services of Miss Ruth E. Philips as community nurse for Red Lake County.



Consolidated School, Oklee, Minn.



High School, Red Lake Falls, Minn.
Red Lake County has 57 public schools.



Graded School, Red Lake Falls, Minn.



St. Joseph's School, Red Lake Falls, Minn.



Consolidated School, Plummer, Minn.

Churches

The county has nineteen churches divided as follows: Roman Catholic, seven; German Lutheran, two; Scandinavian Lutheran, five; Presbyterian, five. The work in these churches is in charge of Rev. S. M. Kelly, Red Lake Falls; Rev. Fr. E. J. Lemire, Red Lake Falls; Rev. Fr. Thomas Merrill, Red Lake Falls; Rev. Fr. Sam Bouchard, Red Lake Falls; Rev. Fr. Lamey, Dorothy; Rev. Fr. N. P. Junker, Plummer; Rev. Fr. L. A. Perrnault, Oklee; Rev. Fr. A. Bealieu, Brooks; Rev. S. T. Palm, Oklee; Rev. Grimsrud, St. Hilaire; Rev. Herman AmEnd, Wylie, and Rev. O. Kolstoe, Plummer.



St. Francis Xavier Catholic Church, Oklee, Minn.



First Presbyterian Church, Red Lake Falls, Minn.



St. Anthony's Church and Parsonage, Terrebonne,, Minn.



Zion Norwegian Lutheran Church, Oklee, Minn.

Game and Fish

There come times when farmers and business men like to take a little recreation from their work. The prairies, woods and rivers of Red Lake County afford an opportunity to fish and hunt to one's heart's content. Fish abound in all the streams—sturgeons weighing from thirty-five to sixty pounds have been caught in the Red Lake river.

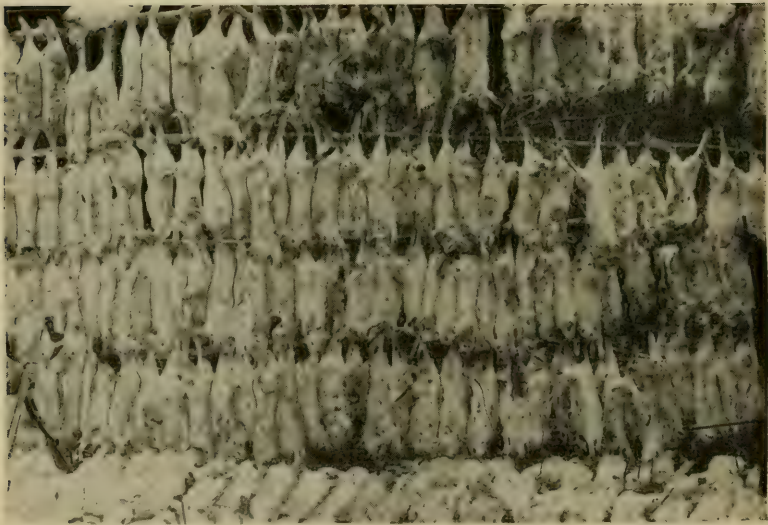
There is not a year passes but what local farmers get a few deer. Partridges, chickens, ducks and the smaller fur-bearing animals are found on the prairies, in the woods and along the streams of the county.



The results of a three-day duck hunt.



Some of the fish caught on a two-day outing.



A day among the Cottontails.



Red Lake County Deer.

CLIMATOLOGICAL DATA FOR RED LAKE FALL, MINN.

Killing Frosts.

Last in Spring.

First in Fall.

1914—May 14

1914—Oct. 14

1915—May 18

1915—Aug. 26

1916—May 19

1916—Sept. 15

1917—June 1

1917—Sept. 10

1918—May 20

1918—Sept. 3

1919—May 9

1919—Sept. 25

Temperature (Degrees Fahrenheit.)

Ft. in elevation	No. of yrs. of record	An- nual mean	High- est	Date	Low- est	Date	Year
1,000	2	-----	96	July 26	46	Dec. 12	1914
"	3	40.3	90	Sept. 2	42	Jan. 27	1915
"	4	35.8	94	July 28	45	Jan. 13	1916
"	5	35.7	105	July 28	36	Jan. 14	1917
"	6	39.7	98	July 20	36	Jan. 30	1918
"	7	38.0	92	May 28	39	Jan. 3	1919

Precipitation (inches.)

No. of years of record.	Total for year.	Greatest monthly.	Month.	Least monthly.	Month.	Total snowfall.	No. of rainy days.	No. of clear days.	No. of part cloudy days.	No. of cloudy days.	Prevailing direction of wind.	Year.
..	18.26	7.56	June	0.02	Mar.	30.0	66	160	93	112	SW	1914
3	29.66	5.75	Aug.	0.04	Nov.	66.6	---	197	70	99	NW	1916
4	15.01	2.14	July	0.11	May	85.5	67	191	58	116	NW	1917
5	20.59	4.35	Aug.	Mar.	38.5	64	208	37	120	NW	1918
6	31.37	8.62	July	0.43	Dec.	67.0	72	214	42	109	SW	1919

Outlook and Recommendation

OUTLOOK FOR 1920.

We believe that the outlook for the coming year as far as the Farm Bureau is concerned is bright.

Like all the new movements the Farm Bureau must first grope its way along before it can entirely come to its own. Farmers who have given the Farm Bureau a fair trial and have presented their problems to it as they arise are satisfied. They are more than satisfied, for the Farm Bureau in some instances has made them hundreds of dollars. It is only a matter of time until all farmers will realize that the Farm Bureau and the county agent are their friends.

The Farm Bureau is your institution, its directors are elected by you and will serve your interests faithfully as their interests are yours. Give them your support and assist them whenever you are called upon to help, affiliate yourself with the Farm Bureau, it is the largest agricultural organization in the world. Remember, if you do not use the Farm Bureau it is your loss and the other man's gain. The following are some of the projects and activities the Farm Bureau hopes to be instrumental in accomplishing the coming year:

1. Development of Farm Bureau Association.

- (1) Increasing the membership from 307 to 500.
- (2) Working out "Simon's Plan" of community organization in each township.
- (3) Ratification of State Federation of Farm Bureaus.

2. Crop Improvement and Introduction.

- (1) Farm Want and For Sale Exchange List.
- (2) Securing 13 pure wheat co-operators.
- (3) Securing 13 pure oat co-operators.
- (4) Securing 13 pure barley co-operators.
- (5) Securing 13 sweet clover co-operators.
- (6) Securing 13 red clover co-operators.
- (7) Securing 13 alfalfa co-operators.
- (8) Securing 13 smut demonstrations.
- (9) Securing 13 corn co-operators.
- (10) Securing 26 certified seed potato plots.
- (11) Securing 52 rye co-operators.

3. Livestock Improvement and Introduction.

- (1) Securing co-operators in testing 100 herds of cattle for tuberculosis.
- (2) Establishing of five herds of pure bred Shorthorn cattle.
- (3) Establishing of five herds of pure bred Holstein cattle.
- (4) Establishing of five herds of pure bred Chester White hogs.
- (5) Establishing of five herds of pure bred Duroc-Jersey hogs.
- (6) Establishing of five herds of pure bred Poland-China hogs.
- (7) Establishing of five flocks of pure bred Shropshire sheep.
- (8) Establishing of one Shorthorn bull association.
- (9) Establishing of one Holstein bull association.
- (10) Establishing of 13 flocks of standard bred poultry.
- (11) Establishing of 13 hog pasture demonstrations.
- (12) Establishing of 5 cow testing associations.
- (13) Establishing of 13 sheep demonstrations.
- (14) Establishing of 13 co-operators in balanced rations.
- (15) Exchange of 50 pure bred sires.

4. Farm Management.

- (1) Securing of 13 co-operators in crop rotation.
- (2) Securing of 26 co-operators in farm accounts.
- (3) Securing of 100 soil test plot co-operators.
- (4) Securing of 5 tile drainage co-operators.
- (5) Securing of 10 tractor co-operators.
- (6) Securing of 2 co-operators in laying out farmsteads.

- (7) Securing of 5 co-operators in conserving manure.
- (8) Securing of 5 co-operators in use of gypsum.
- (10) Securing of 13 co-operators in weed control.

5. Farm Buildings.

- (1) Co-operators in erection of 2 modern farm houses.
- (2) Co-operators in erection of 5 modern farm barns.
- (3) Co-operators in erection of 1 modern dairy barn.
- (4) Co-operators in erection of 4 modern hog houses.
- (5) Co-operators in erection of 100 silos.

6. Farm Organizations.

- (1) Assistance in organizing two livestock shipping associations.
- (2) Assistance in organizing five farmers clubs.
- (3) Assistance in organizing one pure seed growers' association.
- (4) Assistance in organizing one potato growers' association.
- (5) Assistance in organizing one farmers' co-operative potato warehouse.
- (6) Assistance in completing the organization of one livestock breeders' association.
- (7) Assistance in the development of poultry breeders' association.
- (8) Assistance in the development of co-operative creameries.
- (9) Assistance in the development of cheese factories.
- (10) Assistance in the development of co-operative elevators.
- (11) Assistance in the development of farmers' clubs.
- (12) Assistance in the development of community clubs.

7. Boys' and Girls' Clubs.

- (1) Securing 20 boys and girls for potato club work.
- (2) Securing 20 boys and girls for Shorthorn club.
- (3) Securing 20 boys and girls for Holstein club.
- (4) Securing 5 boys and girls for Duroc-Jersey hog club.
- (5) Securing 5 boys and girls for Chester White hog club.
- (6) Securing 5 boys and girls for Poland-China hog club.
- (7) Securing 10 boys and girls for poultry club.

8. Adult Livestock Contest. (Pure Bred Section.)

- (1) Securing of 5 co-operators for pure bred Shorthorn cow contest.
- (2) Securing of 5 co-operators for pure bred Holstein cow contest.
- (3) Securing of 5 co-operators for pure bred Shropshire sheep contest.
- (4) Securing of 5 co-operators for pure bred Duroc-Jersey hog contest.
- (5) Securing of 5 co-operators for pure bred Chester White hog contest.
- (6) Securing of 5 co-operators for pure bred Poland-China hog contest.
- (7) Securing of 5 co-operators for pure bred Shorthorn bull contest.
- (8) Securing of 5 co-operators for pure bred Holstein bull contest.
- (9) Securing of 5 co-operators for pure bred Shropshire ram contest.

9. Adult Livestock Contest. (Grade Section.)

All females to be shown with offspring from pure bred sire.

- (1) Securing of 5 co-operators for Shorthorn cow contest.
- (2) Securing of 5 co-operators for Holstein cow contest.
- (3) Securing of 5 co-operators for Shropshire sheep contest.
- (4) Securing of 5 co-operators for Duroc-Jersey hog contest.
- (5) Securing of 5 co-operators for Chester White hog contest.
- (6) Securing of 5 co-operators for Poland-China hog contest.

RECIPE FOR U. S. GOVERNMENT WHITEWASH.

The government recipe for whitewash to be used for outside work is as follows: Slake a half bushel of lime in boiling water, keeping it covered during the process. Strain it and add a peck of salt dissolved in warm water, three pounds of rice which has been boiled to a thin paste, one-half pound of Spanish whiting, one pound of clear glue dissolved in warm water. Mix these well together and let the mixture stand for several days. Keep the wash thus made in a portable heater, and when used put it on as hot as possible.

RULE FOR ESTIMATING EAR CORN.

Multiply the length of the bin by its width and this product by the average depth to get the number of cubic feet. Dividing the result by $2\frac{1}{2}$, the number of cubic feet in a bushel of ear corn will give the number of bushels.

CAPACITIES OF SILOS.

Height in Feet	Inside Diameter in Feet				
	12	14	16	18	20
	Tons	Tons	Tons	Tons	Tons
20.....	38	51	67	85	105
22.....	43	59	77	97	120
24.....	49	66	87	110	135
26.....	55	74	97	123	152
28.....	61	83	108	137	169
30.....	67	91	119	151	187
32.....	74	100	131	166	205
34.....	80	109	143	181	224
36.....	87	118	155	196	242
38.....	94	128	167	212	262
40.....	101	138	180	229	280

RULE FOR ESTIMATING SMALL GRAIN AND SHELLED CORN IN BINS.

Multiply the length of the bin by its width and the product by the depth to get the number of cubic feet. There are $1\frac{1}{4}$ cubic feet in one bushel. In other words, there will be four-fifths as many bushels as there are cubic feet. Four-fifths is the same as eight-tenths. Find eight-tenths of the number of cubic feet by multiplying by 8 and pointing off one decimal place, and the result will be the number of bushels.

RULE FOR ESTIMATING HAY IN STACKS OR MOWS.

The length times the width, multiplied by the average height gives the contents in cubic feet. Unless the kind of hay is known definitely, divide by 400, the number of cubic feet usually taken for one ton. The number of feet required to make one ton varies with the depth of the mow or stack, the kind of hay, and the length of time it has been standing. The following table gives a close approximation of the number of cubic feet required to make a ton of hay under various conditions:

Depth of mow or height of stack in feet	Length of time standing	Cubic feet required
10 to 12	30 days	613
10 to 12	60 days	512
12 to 15	30 days	512
12 to 15	60 days	422
15 to 18	30 days	422
18 to 20	60 days or more	343

AMOUNTS OF SEED PER ACRE.

Alfalfa (broadcast)	12-15	lbs.
Alfalfa (drilled)	8-10	lbs.
Barley	7- 9	pks.
Beans (field)	2- 6	pks.
Blue grass (sown alone)	28	lbs.
Buckwheat	3- 4	pks.
Carrots (for stock)	3- 4	lbs.
Clover (alsike alone)	6	lbs.
Clover (red alone)	6-10	lbs.
Clover (white alone)	3- 4	lbs.
Corn (for ears)	4- 6	qts.
Corn (for silage)	8-16	qts.
Cow peas	1- 1½	bus.
Flax (for seed)	2- 3	pks.
Mangels	5- 8	lbs.
Millet	2- 3	pks.
Oats	8-10	pks.
Peas	2- 2½	bus.
Potatoes	8-15	bus.
Rape (broadcast)	6- 8	lbs.
Rape (drilled)	3- 6	lbs.
Red Top (uncleaned)	6- 8	lbs.
Rye (for grain)	5- 6	pks.
Rye (for pasture)	8-10	pks.
Sugar beets	12-16	lbs.
Timothy	10-12	lbs.
Timothy and Clover:		
Clover	6 lbs.	} 14 lbs.
Timothy	8 lbs.	
Wheat (spring)	5- 6	pks.
Wheat (winter)	6- 8	pks.

WEIGHTS PER BUSHEL ACCORDING TO MINNESOTA LAWS.

Serial No. 2728 of Chap. 50, Revised Laws of 1905, as amended
by Section 4, Chap. 560, Laws of 1913.

Applicable to Red Lake County.

Alfalfa Seed	60 lbs.
Barley	48 lbs.
Buckwheat	50 lbs.
Clover Seed	60 lbs.
Corn (Ear)	70 lbs.
Corn (Shelled)	56 lbs.

Millet	48 lbs.
Oats	32 lbs.
Onions	52 lbs.
Potatoes (Irish)	60 lbs.
Rye	56 lbs.
Spelt or Speltz	40 lbs.
Timothy Seed	45 lbs.

Periods of Gestation.

Hogs	112 days
Sheep	150 days
Cattle	283 days

County Organizations

RED LAKE COUNTY AGRICULTURAL ASSOCIATION.

Officers and Directors.

Dr. N. M. Watson	Red Lake Falls, Minn.
Ildaige, Baril	Red Lake Falls, Minn.
Gilbert Marchildon	Red Lake Falls, Minn.
Frank P. Grenier	Red Lake Falls, Minn.
J. H. Wagner	Red Lake Falls, Minn.
J. E. Draeger	Red Lake Falls, Minn.
Dr. A. T. Ostendorf	Red Lake Falls, Minn.
Noel Delorme	Red Lake Falls, Minn.
Fremont Derosier	Red Lake Falls, Minn.

RED LAKE COUNTY PUBLIC HEALTH ASSOCIATION.

Officers and Executive Committee.

S. M. Kelly, President	Red Lake Falls, Minn.
Dr. W. B. Torgerson, First Vice President	Oklee, Minn.
Mrs. T. Reep, Second Vice President	Plummer, Minn.
Mrs. S. E. Schockley, Secretary	Red Lake Falls, Minn.
Geo. Christie, Treasurer	Red Lake Falls, Minn.
Mrs. W. J. Quesnell	Red Lake Falls, Minn.
Sam E. Hunt	Red Lake Falls, Minn.

Directors.

Rev. H. Amend, Wylie; T. P. Smidesang, Wylie; Felix Grandbois, Red Lake Falls; C. O. Swanson, Red Lake Falls; P. J. Gustafson, St. Hilaire; Peter LaChance, Red Lake Falls; A. R. Knaack, Red Lake Falls; Mrs. Henry Huot, Red Lake Falls; Frank P. Grenier, Red Lake Falls; C. W. Swain, Red Lake Falls; M. O. Sortedahl, Red Lake Falls; Will Eukel, Red Lake Falls; Mrs. A. E. Menard, Plummer; Alice Fellman, Red Lake Falls; Mrs. John Hofius, Plummer; A. J. Hemstad, Plum-

mer; Mrs. James Gilbertson, Plummer; Mrs. Tobias Reep, Plummer; F. R. Davies, Plummer; Wm. Bottineau, Plummer; Olaf Tande, Plummer; Celia Bemis, Plummer; Mrs. Swan Olson, Oklee; Ole O. Lee, Oklee; Mrs. C. A. Bennet, Oklee; Mrs. R. H. Green, Plummer; L. E. Slyter, Red Lake Falls; Fred Purath, Red Lake Falls; Mrs. Geo. Remick, Red Lake Falls; Ovilla Robillard, Red Lake Falls; Rev. Bouchard, Red Lake Falls; Fremont Derosier, Red Lake Falls; J. E. Buskirk, Brooks; Earl Smith, Erskine; Mrs. Geo. Zea, Brooks; Geo. Peterson, Brooks; Joseph Bergerson, Brooks; Carl Schusser, Brooks; Dr. W. B. Torgerson, Oklee; Mrs. Inga Melby, Oklee; E. F. Johnson, Oklee; Mrs. Geo. Hennings, Red Lake Falls; W. O. Hunt, Red Lake Falls; Mrs. Dan Paul, Red Lake Falls; Geo. Christie, Red Lake Falls; Rev. S. M. Kelly, Red Lake Falls; Mrs. Fred Cyr, Red Lake Falls; Mrs. W. J. Quesnell, Red Lake Falls; Mrs. Sam Shockley, Red Lake Falls; R. H. Bourdon, Red Lake Falls.

RED LAKE COUNTY CHAPTER OF THE AMERICAN RED CROSS.

Officers.

Rev. S. M. Kelly, Chairman.....	Red Lake Falls, Minn.
Mrs. E. G. Buse, Vice Chairman.....	Red Lake Falls, Minn.
Mrs. Joe Harren, Secretary.....	Red Lake Falls, Minn.
Mrs. Fred Cyr, Aisstant Secretary	Red Lake Falls, Minn.
Geo. Christie, Treasurer.....	Red Lake Falls, Minn.

Directors.

Sam Hunt	Red Lake Falls, Minn.
George Hennings	Red Lake Falls, Minn.
Mrs. Robert Bourden	Red Lake Falls, Minn.
Mrs. W. J. Quesnell.....	Red Lake Falls, Minn.
Mrs. S. C. Shockley.....	Red Lake Falls, Minn.

Directors of Branches.

Red Lake Falls, Mrs. Charles Boughton, Red Lake Falls, Minn.; Oklee, Dr. W. B. Torgerson, Oklee, Minn.; Plummer, Mrs. Tobias Reep, Plummer, Minn.; Brooks, Mrs. Frank Deymonaz, Brooks, Minn.; Garnes, Mrs. Bemus, Plummer, Minn.; Wylie, Mrs. T. P. Smidesang, Wylie, Minn.; Poplar River, Mrs. Jennie Johnson, Erskine, Minn.; Equality, Mrs. E. O. Erickson, Oklee, Minn.; Terrebonne, Mrs. Ovilla Robillard, Red Lake Falls, Minn.

RED LAKE COUNTY POULTRY ASSOCIATION.

G. A. Krueger, President.....	Plummer, Minn.
W. R. Holcomb, First Vice President.....	Plummer, Minn.
C. O. Kankle, First Vice President.....	Red Lake Falls, Minn.
S. J. Rice, Secretary-Treasurer.....	Plummer, Minn.

RED LAKE COUNTY AUTO CLUB.

Officers.

Fred L. Farley, President.....	Red Lake Falls, Minn.
Dr. J. C. Wilkinson, Vice President.....	Red Lake Falls, Minn.
E. G. Buse, Secretary-Treasurer.....	Red Lake Falls, Minn.

Board of Governors.

V. M. Higinbotham	Red Lake Falls, Minn.
Fred Richards	Red Lake Falls, Minn.
Sam. E. Hunt.....	Red Lake Falls, Minn.
H. J. Enderle.....	Plummer, Minn.
Clair Hall	Brooks, Minn.
U. B. Torgerson.....	Oklee, Minn.

RED LAKE COUNTY MEMORIAL ASSOCIATION.

Lee Healy, Chairman.....	Red Lake Falls, Minn.
H. J. Enderle, Vice Chairman.....	Plummer, Minn.
A. L. Brunelle, Secretary.....	Red Lake Falls, Minn.
E. G. Buse, Treasurer.....	Red Lake Falls, Minn.

Board of Directors.

J. E. Buskirk, Brooks, Minn.; James Hance, Red Lake Falls, Minn.; A. E. Menard, Plummer, Minn.; Peter LaChance, Huot, Minn.; T. P. Smidesang, Wylie, Minn.; Robert Anderson, Lillo, Minn.; W. B. Torgerson, Oklee, Minn.; Mose Ducharme, Red Lake Falls, Minn.; H. W. Cutten, Red Lake Falls, Minn.; Omer Parenteau, Red Lake Falls, Minn.

Community Organizations

FARMERS' CLUBS.

Gervais Alert Farmers' Club.

J. H. Wagner, President.....	Red Lake Falls, Minn.
William Dupont, Vice President.....	Plummer, Minn.
A. C. Menard, Secretary-Treasurer.....	Plummer, Minn.

Cloverland Farmers' Club.

John Rose, President.....	Plummer, Minn.
Mrs. Fred Hofius, Vice President.....	Plummer, Minn.
Mrs. James Gilbertson, Secretary-Treasurer.....	Plummer, Minn.

Poplar River Farmers' Club.

Earl Smith, President.....	Erskine, Minn.
Will Vanderwaal, Vice President.....	Erskine, Minn.
H. E. Vanderwaal, Secretary-Treasurer.....	Erskine, Minn.

Sunrise Farmers' Club.

Nels Fore, President.....	Lillo, Minn.
Rier Fossum, Treasurer.....	Lillo, Minn.
T. Slettvedt, Secretary.....	Plummer, Minn.

Garnes Farmers' Club.

Olaf Tande, President.....	Plummer, Minn.
Oscar Lovaas, Secretary.....	Plummer, Minn.
S. Maaren, Treasurer.....	Plummer, Minn.

BROOKS COMMUNITY CLUB.

Officers.

August Burk, President.....	Brooks, Minn.
J. E. Buskirk, Vice President.....	Brooks, Minn.
Frank Deymonaz, Secretary-Treasurer.....	Brooks, Minn.

Directors.

William Allen	Brooks, Minn.
Leon Deymonaz	Brooks, Minn.
W. A. Schroeder.....	Brooks, Minn.
H. L. Brattertn	Erskine, Minn.
Clyde Childs	Brooks, Minn.
Joe Pigeon	Brooks, Minn.
Thomas Moreau	Brooks, Minn.
H. L. Premo.....	Brooks, Minn.
C. W. Royer.....	Brooks, Minn.
Geo. Peterson	Brooks, Minn.
Joseph Carrier	Brooks, Minn.
C. D. Hall.....	Brooks, Minn.
Mrs. Frank Deymonaz	Brooks, Minn.
Mrs. Clyde Childs	Brooks, Minn.

Committees.

Membership	August Burk
Community Forum.....	J. E. Buskirk
Finance	Frank Deymonaz
Educational.....	W. D. Allen
Labor	Leon Deymonaz
Home Trade	Clyde Childs
Health and Sanitation.....	Thomas Moreau
Good Roads and Improvements.....	Geo. Peterson
Recreation	C. D. Hall
Publicity.....	Mrs. Clyde Childs
Program	Mrs. Leon Deymonaz

Commercial Clubs

RED LAKE FALLS COMMERCIAL CLUB, RED LAKE FALLS, MINN.

Officers.

President.....	Geo. F. Hennings
First Vice President.....	J. A. Duffy

Second Vice President.....L. E. Healy
 Secretary.....W. H. Fisher
 Treasurer.....J. E. Draeger

Directors.

C. E. Boughton, Sam. E. Hunt, E. G. Buse,
 P. F. Pouliot, V. M. Highinbotham.

PLUMMER COMMERCIAL CLUB, PLUMMER, MINN.

Officers.

H. J. Enderle.....President and Treasurer
 F. R. DaviesSecretary

Directors.

William Bottineau, Tobias Reep,
 J. W. Pahlen, O. H. Langlie.

OKLEE COMMERCIAL CLUB, OKLEE, MINN.

Officers.

L. DucetPresident
 S. P. Sorenson.....Vice President
 Dan RolandSecretary
 E. A. HovlandTreasurer

Farmers' Co-operative Organizations

CO-OPERATIVE CREAMERIES.

**Plummer Farmers' Co-operative Creamery Co.,
 Plummer, Minn.**

Officers.

David Haugen, President.....Plummer, Minn.
 John Greenwald, Vice President.....Plummer, Minn.
 A. J. Hemstad, Secretary-Treasurer.....Plummer, Minn.

Directors.

Anton LeePlummer, Minn.
 P. S. Medchill.....Plummer, Minn.

Buttermaker.

Albert MartinPlummer, Minn.

Oklee Farmers' Co-operative Creamery Co., Oklee, Minn.

Officers.

Edward E. Havik, President.....Oklee, Minn.
 O. A. Person, Treasurer.....Oklee, Minn.
 W. B. Torgerson, Secretary.....Oklee, Minn.

Directors.

O. H. Lambe.....Oklee, Minn.
 Olaf TandePlummer, Minn.
 Oscar LovaasPlummer, Minn.
 Peter HinceOklee, Minn.

Buttermaker.

Carl RingdahlOklee, Minn.
Clearwater Farmers' Co-operative Creamery Co., Lillo, Minn.

Officers.

Frank Lundeen, President.....Lillo, Minn.
Robert A. Anderson, Treasurer.....Lillo, Minn.
Lars Fore, Secretary.....Lillo, Minn.
Charles G. Sall, Manager.....Plummer, Minn.

Directors.

O. M. Mandt.....Rhoda, Minn.
B. J. PrenbakkeNeptune, Minn.
John LundbladNeptune, Minn.
C. O. Lindberg.....Lillo, Minn.
Arthur LundWanke, Minn.

Buttermaker.

Robert J. Anderson.....Lillo, Minn.

CO-OPERATIVE ELEVATORS.

Brooks Farmers' Co-operative Elevator Co., Brooks, Minn.

Officers.

W. S. Peterson, President.....Brooks, Minn.
J. E. Buskirk, Secretary.....Brooks, Minn.
Geo. Zea, Treasurer and Manager.....Brooks, Minn.

Directors.

Joseph PigeonBrooks, Minn.
W. A. Schroeder.....Brooks, Minn.
Fremont Derosier.....Red Lake Falls, Minn.

**Dorothy Farmers' Co-operative Elevator Co.,
Red Lake Falls, Minn.**

Officers.

Fred Mireault, President.....Red Lake Falls, Minn.
Walter Dyce, SecretaryRed Lake Falls, Minn.
A. R. Knaack, TreasurerRed Lake Falls, Minn.

Directors.

Albert KoopRed Lake Falls, Minn.
Fred YettieRed Lake Falls, Minn.
William PeppinRed Lake Falls, Minn.
Albert LandaRed Lake Falls, Minn.
Mat JensonRed Lake Falls, Minn.
Edward Schultz, ManagerRed Lake Falls, Minn.

Oklee Farmers' Co-operative Elevator Co., Oklee, Minn.

Officers.

Olaf Tande, President.....Plummer, Minn.
Henry Falardeau, Secretary.....Brooks, Minn.
Evind Gustenson, Treasurer.....Oklee, Minn.

Directors.

Edward E. Havik.....Oklee, Minn.
Joe BergeronBrooks, Minn.
August Lindquist, Manager.....Oklee, Minn.

CO-OPERATIVE ELEVATORS.

Wylie Farmers' Co-operative Elevator Co., Wylie, Minn.

Officers.

Charles Kruse, President.....Wylie, Minn.
Henry Gerlach, Vice President.....Red Lake Falls, Minn.
A. G. Hallstrom, Secretary.....Wylie, Minn.
C. G. Borgen, Treasurer.....Wylie, Minn.

Directors.

M. EricksonWylie, Minn.
Wm. Lehrer.....Red Lake Falls, Minn.
Charles ZutzWylie, Minn.
Gust NaplinWylie, Minn.
C. W. JohnsonWylie, Minn.
Hector Bergstrom, Manager.....Wylie, Minn.

LIVESTOCK SHIPPING ASSOCIATION.

Brooks Co-operative Livestock Shipping Association, Brooks, Minn.

Officers.

W. D. Allen, President.....Brooks, Minn.
August Burke, Secretary.....Brooks, Minn.
Howard Childs, Treasurer and Manager.....Brooks, Minn.

Directors.

W. A. SchroederBrooks, Minn.
Fred BerberichBrooks, Minn.
Fremont DerosierRed Lake Falls, Minn.

Oklee Co-operative Livestock Shipping Association, Oklee, Minn.

Officers.

Nels Fore, President.....Lillo, Minn.
E. K. Gjernes, Secretary-Treas. and Manager.....Oklee, Minn.

Directors.

Ole O. Lee.....Oklee, Minn.
Ole SlettvoldPlummer, Minn.
Evind GunstensonOklee, Minn.

**Wylie Co-operative Livestock Shipping Association,
Wylie, Minn.**

Officers.

Charles Kruse, President.....	Wylie, Minn.
Henry Gerlach, Vice President.....	Red Lake Falls, Minn.
A. G. Halstrom, Secretary	Wylie, Minn.
A. G. Borgen, Treasurer	Wylie, Minn.

Directors.

M. Erickson	Wylie, Minn.
Wm. Lehrer.....	Red Lake Falls, Minn.
Charles Zutz	Wylie, Minn.
Gust Naplin	Wylie, Minn.
C. W. Johnson.....	Wylie, Minn.
Hector Bergstrom, Manager.....	Wylie, Minn.

**Plummer Co-operative Livestock Shipping Association,
Plummer, Minn.**

Officers.

A. J. Hemstad, President.....	Plummer, Minn.
L. J. Hesse, Vice President.....	Plummer, Minn.
Albert Priebe	Plummer, Minn.
Anton Lee	Plummer, Minn.
D. A. McCullough, Sec.-Treas., Hgr.....	Plummer, Minn.

**CLEARWATER FARMERS' TELEPHONE CO.,
PLUMMER, MINN.**

Officers.

Charles G. Sall, President.....	Plummer, Minn.
M. J. Fallon, Vice President.....	Plummer, Minn.
P. S. Medchill, Sec.-Treas. and Manager.....	Plummer, Minn.

Directors.

Anton Lee	Plummer, Minn.
H. J. Enderle.....	Plummer, Minn.
Fred Measner	Lillo, Minn.
W. B. Torgerson.....	Oklee, Minn.
Ingvald Husby	Plummer, Minn.
T. G. Slettvedt.....	Lillo, Minn.

Executives

COUNTY COMMISSIONERS.

Frank P. Grenier, Red Lake Falls, 1st District.
Arthur Prenevost, Red Lake Falls, 2nd District.
Ole O. Lee, Oklee, 3rd District.
Sam E. Hunt, Red Lake Falls, 4th District.
Geo. F. Peterson, Brooks, 5th District.

COUNTY OFFICERS.

Fred L. Farley, Attorney, Red Lake Falls.
George Dupont, Auditor, Red Lake Falls.
Ovide Emard, Treasurer, Red Lake Falls.
Frank Jeffers, Register of Deeds, Red Lake Falls.
E. G. Buse, Clerk of Court, Red Lake Falls.
Joseph Perrault, Judge of Probate, Red Lake Falls.
Charles Fellman, Sheriff, Red Lake Falls.
Mrs. W. J. Quesnell, School Superintendent, Red Lake Falls.

Highway Engineer.

Oswald LindRed Lake Falls, Minn.

CITY AND VILLAGE OFFICERS.

Red Lake Falls, Minn.

Leo Steinert, Mayor.
Geo. Hennings, Alderman 1st Ward.
Fred E. Cyr, Alderman 2nd Ward.
S. C. Shockley, Alderman 3rd Ward.
Gilbert Marchildon, Alderman at Large.
E. A. Nelson, Alderman at Large.
Charles Boughton, City Attorney.
Walter Quesnell, City Treasurer.
Joseph Perrault, City Clerk.
Carsten Mead, Chief of Police.
Franz Freund, Assessor.

Plummer, Minn.

E. B. Lanager, Mayor.
Alcide Morrisette, Alderman.
John Rice, Alderman.
N. A. Nelson, Alderman.
F. R. Davies, Clerk.
Joe Morrisette, Chief of Police.
Edward Wichterman, Assessor.

Oklee, Minn.

J. O. Melby, Mayor.
W. B. Torgerson, Treasurer.
A. P. Toupin, Recorder.
W. P. Lynch, Trustee.
E. A. Hovland, Trustee.
I. Fortier, Trustee.
O. A. Liabraaten, Chief of Police.
Nils Hagen, Assessor.

INDEX

	Page
Amounts of seed per acre.....	101
Barns built	49
Boys' and girls' club work.....	6
Capacity of silos	100
Cereal disease control.....	5
Certified potato plots	47
Churches	90
Cheese factories	57
Climatological data	95
Club work plans for 1920.....	54
Comparison of grade and pure bred livestock.....	18
Corn sold	31
Cost of Farm Bureau work.....	10
Crops	30
County Commissioners	109
Farm homes built.....	49
Farmers' co-operative creameries	56
Farmers' co-operative elevators	56
Farmers' co-operative livestock shipping associations.....	56
Farmers' purchasing pure bred livestock.....	23
Farmers testing livestock for tuberculosis.....	21
Flour mills	56
Game and fish	92
Hog cholera	17
Improvement of livestock in the county.....	13
Increase in Farm Bureau membership.....	7
Labor	5-39
Loss by smut.....	39
Outlook and recommendations, 1920.....	96
Office work	5
Officers, county	110
Officers and directors:	
Commercial Club, Red Lake Falls.....	105
Commercial Club, Plummer	106
Commercial Club, Oklee	107
Council, city of Red Lake Falls.....	110
Council, village of Plummer	110
Council, village of Oklee	110
Farmers' co-operative creamery of Plummer	106
Farmers' co-operative creamery of Oklee	106
Farmers' co-operative creamery of Lillo	107
Farmers' co-operative elevator company of Oklee	107
Farmers' co-operative elevator company of Brooks	107
Farmers' co-operative elevator company of Wylie	108
Farmers' co-operative elevator company of Dorothy	107
Farmers' co-operative livestock shipping Ass'n. of Plummer	109
Farmers' co-operative livestock shipping Ass'n. of Oklee.....	108
Farmers' co-operative livestock shipping Ass'n. of Brooks....	108
Farmers' co-operative livestock shipping Ass'n. of Wylie.....	109

	Page
Farmers' community club, Brooks.....	105
Farmers' club, Gervais Alert	104
Farmers' club, Cloverland	104
Farmers' club, Sunrise	104
Farmers' club, Poplar River	104
Farmers' club, Garnes	105
Red Lake County Farm Bureau Association.....	7
Red Lake County Agricultural Association	102
Red Lake County Poultry Association	103
Red Lake County Memorial Association	104
Red Lake County Public Health Association	102
Red Lake County American Chapter Red Cross.....	103
Red Lake County Auto club	104
Clearwater Telephone Company.....	109
Periods of gestation.....	102
Potato club work.....	53
Picnic, Farm Bureau	9
Picnic, Poultry	70
Plummer market day	76
Project work	6
Program of work for Farm Bureau.....	8
Purpose of Farm Bureau.....	8
Pure seed work.....	5
Red Lake county	3
Red Lake county fair	65
Red Lake county poultry breeders' association	69
Red Lake county poultry show	72
Road construction	62
Recipe for government whitewash.....	99
Rule for estimating ear corn	100
Rule for estimating grains and shelled corn.....	100
Rule for estimating hay in stack or mow.....	100
Sale of livestock.....	17
Schools	87
Seed for spring planting.....	5
Silos erected	49
State highway system.....	61
Smut campaign	31
Tuberculine testing	5-17
United war work campaign.....	81
Use of corrosive sublimate	47
Use of formaldehyde	39
Weights per bushel.....	100
Yields of Burbank and Green Mountain potatoes.....	45





APR 78



LIBRARY OF CONGRESS



0 003 006 098 2